Application S/N 09/787328 Amendment and Response dated October 26, 2004 Response to Office Action dated July 26, 2004

FROM-Merchant & Gould

Amendments to the Drawings

The attached drawing sheet includes changes to Figures 1-2. In particular, the "-" preceding the position numbers have been removed to avoid confusion.

Attachment: Replacement Sheets

WO00/17351

Inventor: LONG YU Docket No.: 9548_SOUSWO
TÜLA: NEW HUMAN EEPATOMA-DERIVED GROWTH FACTOR ENCODING
SEQUENCE AND POLYPEPTIDE ENCODED BY SUCH DNA SEQUENCE AND
PRODUCING METHOD THERBOF
Serial No.: 09/187328
REPLINGERINGE Chart

PCT/CN99/00139

Replacement Shoot 1 of 4

human HDGF2 Nt	- ACCGCTCGTCCGCCCGGCTTGAGGCCCGCGGGGGGGGGG	50
mouse HDGF Nt	- CGCAAC-TTG	10
human HDGF2 Nt	- GGCCCGCGGGGGGGGCGCCTCCCGGCATCTTCGCGGCCACCAAGGACTAC	100
mouse HDGF Nt	- GGCTCGCGC-TTCCCGGCT-CGGCGCGGAGCCCGG-GGCGCC	49
human HDGF2 Nt	- CAGGAAGGGGAGCGCTGGGATGGCGCG-TCCG-CGGCCCCGCGAGTAC	147
mouse HDGP Nt	- CGCGGCCCCGCCA TGTCGCGATCCAACCGGCAGAAAGAGTAC	91
human HDGF2 Nt	- AAAGCGGCGACCTGGTCTTCGCCAAGATGAAGGGCTACCCGCACTGGCC	197
mouse HDGF Nt	- AAGTGCGGAGACCTGGTGTTTGCGAAGATGAAAGGATACCCACACTGGCC	141
human HDGF2 Nt	- GGCCCGGATTGATGAACTCCCAGAGGGCGCTGTGAAGCCTCCAGCAAACA	247
mouse HDGP Nt	- GGCCCGGATTGATGAGATGCCTGAGGCTGCAGTGAAGTCAACAGCCAACA	191
human HDGF2 Nt	- AGTATOCTATCTTCTTTTTTGGCACCCATGAAACTGCATTTCTAGGTCCC	297
mouse HDGP Nt	- AATACCAAGTCTTTTTTTTTGGGACCCATGAGACGGCÁTTCCTGGGCCCC	241
	- AAAGACCTTTTTCCATATAAGGAGTACAAAGACAAGTTTGGAAAGTCAAA	347
	- AAAGACCTCTTCCCTTATGAGGAATCCAAGGAGAAGTTTGGCAAGCCCAA	291
	- CAAACGGAAAGGATTTAACGAAGGATTGTGGGAAATAGAAAATAACCCAG	397
	- CAAGAGGAAAGGGTTCAGCGAGGGGGCTGTGGGAGATCGAGAACAACCCTA	341
	- GAGTAAAGTTTACTGGCTACCAGGCAATTCAGCAACAGAGCTCTTCA	444
	- CAGTCAAGGCCTCTGGCTACCAGTCCTCCCAGAAAAAGAGTTGTGCGGCA	391
	- GAAACTGAGGGAGAAGGTIGAAATAC	
	- GAGCCCGAGGTGGAGCCCGAAGCCCATGAGGGTGACGGTGATAAGAAGGG	441
	- TGCAGATGCAAGCAGTGAGGAAGAAGGTGATAGAGTA-	Б 07
mouse HDGF Nt	- CAGTGCAGAGGGCAGCAGCGAAGAAGGGAAACTGGTGATCGATGAAC	491

Fig. 1

PCT/CN99/00139

TIM: NEW HUMAN HEPATOMA-DERIVED GROWTH FACTOR ENCODING

SEQUENCE AND POLYPEPTIDE ENCODED BY SUCH DNA SEQUENCE AND WO00/17351 PRODUCING METHOD THEREOF

Serial No.: 09/787328 Replacement Sheet 2 of 4 human HDGF2 Nt -GAAGAAGATGGAAAAGGCAA-----AAGAA-AGA----1 111111 111111 mouse HDGF Nt CAGCCAAGGAGAAGAACGAAAAGGGCACGCTGAAGAGGAGAGCAGGGGAT -AAGCAGGCTCAAAAC----GGA human HDGF2 Nt - G -AAA 111 111 11 1 1 11 $\Pi\Pi$ - GTGTTGGAGGACTCCCCTAAACGTCCCAAGGAGTCAGGAGACCATGAGGA mouse HDGF Nt human HDGF2 Nt - AAAAGTCAT---ATA-CA 576 111 П 1 1 11 111 mouse HDGP Nt GCAGGACAAGGAGATAOCTGCCTTGGAGGGTGAGAGGCACCTGCCTGTAG human HDGF2 Nt -AAGAA-ATC-----CTCTAAAC-AGTC-----CCGGAAATCT 11111 1 1 1111 1 1 18 1 mouse HDGF Nt AGGTGGAGAAGAACAGCACCCCCTCTGAGCCAGACTCTGGCCAGGGACCT human HDGP2 Nt CCAGGAGATGAGATGACAAAGA-CTGCAAAG-AAGAGG-111 1111 111 11111 11. | 111 | 1111 | 11 - CCTGCAGAGGAAGAGGGGAGAGGGAAGAGGCTGA mouse HDGF Nt human HDGF2 Nt CAAA 651 111 mouse HDGF Nt AGCCCCAGGCGTCAGAGATCATGAGAGCCTGTAGCCACCAATGTTTCAAG 791 human HDGF2 Nt - AGCAGC-TCTGAGGG-**TCGAGATGCG** EI 111 AGGAGCCCCTGCCCCGTTCCTGCTGCTGTCTGGGTGCTACTGGGGAAACT mouse HDGF Nt human HDGF2 Nt - GGCAACGACA-CAA-ACACAACT- 699 -GAA 111 111 11 1 111 - GGCCATGGCCTGCAAACTGGGAACCCTTTCCCACCCTATTTACCCTACTC mouse HDGF Nt 891 human HDGF2 Nt -TCAG---ACT--TGCAGAAAACC-AGT -GAAG -GGACCT ΙП 11 111 Ш Ш 11 11 1 1 mouse HDGP Nt CCTCACTCACTCTCTCTCTAAGCCCACTCCTGGAGAGTGTCTTGGCCCT human HDGF2 Nt - AACTACCA--TA-ATGAATGCTG---CATATTAAGAGA--AA 764 11 11 1 111 - CACCTCCAGCTCCCTTCCTATATACACCCTGTGCCCCAGGATGAGATGAG mouse HDGF Nt GGTThuman HDGF2 Nt CCACAAGAAGGT-TATA--TGTTT--**GTCTAA** $\Pi\Pi$ mouse HDGF Nt GCCTTTGTATCTCTTTACACTTGTTTCCCAGGGTTTCTGCTGGGGTCTAG human HDGP2 Nt - TAT TÇTTG -GA 805 П 11111

Fig. 1 (cont.)

- GCTGCTGTTTCCACCTCTGACACCTCTGCCCTGCTGCAGGCATTCTAGA

mouse HDGF Nt

PCT/CN99/60139

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Rephoement Short 3 of 4

human HDGF2 Nt	TTTGATATGAACCAACACATAG	827
mouse HDGF Nt	- CCTTTGGGGTGGATAGTGGGCAGGAGGTGAAAGAATATAAAGGAG	1141
human HDGF2 Nt		854
mouse HDGF Nt		1191
human HDGF2 Nt	TTTGTATGTACATT	868
mouse HDGF Nt		1241
human HDGF2 Nt	ATTCATATTCCTCTCTGTTGTGTTTCCGG	897
mouse HDGF Nt	- AGAGGCTACCATCCATCCATAAATCCTTGTTGATTTTTGGGAACACTTAT	1291
human HDGP2 Nt	CGGAA-AAGACATTTTAGCCTTT-	919
wouse HDGF Nt	- CCCCTGACCCCAGGGTTCAAGGAATTGTAGTTTAACATCTAGACTTTGG	1341
human HDGF2 Nt		929
mouse HDGF Nt	- AGTITCCAAGTTTGGGCCTAGGACCTGGAGGGGGGGGGCTAAGAGCTGAAGAAT	1391
human HDGF2 Nt	ACTGATTTAATTTCATGT-TATTTGGTTGCATGAA	963
mouse HDGF Nt	- CAACTGATTTGCATTGAGGAAATGTCTCTTTAGATCTCAGGGCAGAAATG	1441
human HDGF2 Nt	- GTTGCCCTTAACCACTAAGGATTAT-C	989
mouse HDGF Nt	- ATAACCTGGGGAGACCTGCTGCCTTCATCTACTTCCCAATGCTTGAGGCC	1491
human HDGP2 Nt	- A	1018
	- AGCCTGTAGTCAGATATTTCACCCAGACATAAAGGAAAAGACCATTTTTT	1541
human HDGF2 Nt	AGGATC 1024 (SEQ.ID NO: 3)	
mouse HDGF Nt	- TTAGGAAATGTTTTTAATAAAA 1563 (SEQ ID NO: 9)	

Fig. 1 (cont.)

Identity: 68.7%

Identity: 53.7% Similarity: 9.4%

Fig. 2